

5.7 Touzalin Avenue and Fremont Street

BEFORE

ADT: 13,600 veh/day (2000)

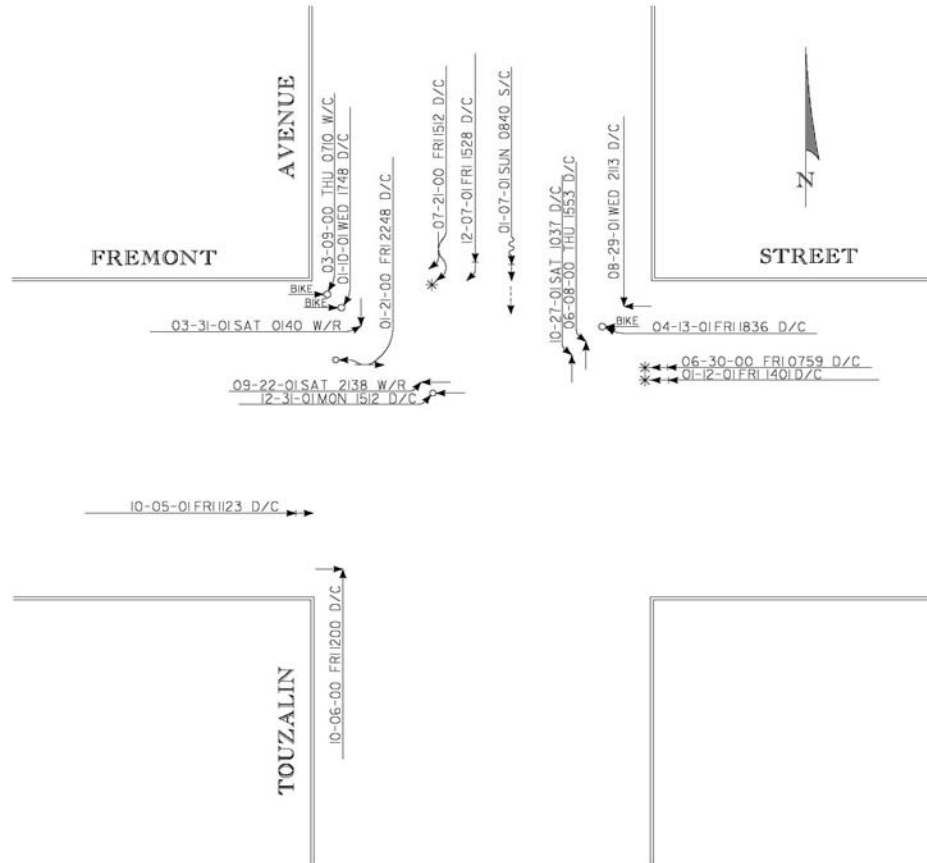
Time Period:

12/26/99-12/31/01

Traffic Control: Actuated Coordinated Signal

Crash Pattern:

EB Left Turns
SB Right Turns and Left Turns



Total Crashes in Before Period: 17

N/A

5.7 Touzalin Avenue and Fremont Street

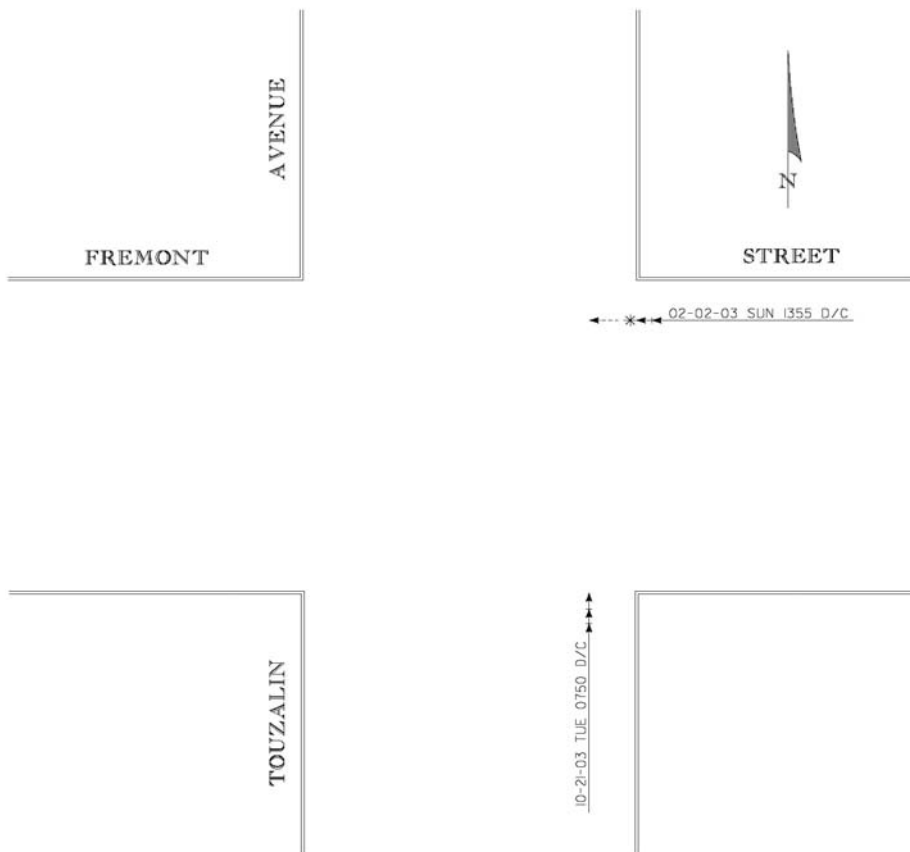
AFTER

Countermeasures: Rebuilt Traffic Signals with Improved Signal Displays, Detection, and Street Lighting

Time Period: 12/26/02-12/31/04

Improvement Completion Date: December 26, 2002

Speed Limits: NS Arterial- 35 mph
EW Arterial- 35 mph



Total Crashes in After Period: 2



Touzalin Avenue and Fremont Street- Northbound Approach (After)

5.7 Touzalin Avenue and Fremont Street

COMPARISON

Countermeasures:

Rebuilt Traffic Signals with Improved Signal Displays,
Detection, and Street Lighting

Improvement Completion Date:

December 26, 2002

	Before	After	Change
Analysis Period	12/26/99-12/31/01	12/26/02-12/31/04	-
Primary Crash Benefit			
Total Number of Correctable Crashes	6	0	-100%
All Other Intersection Crashes	11	2	-82%
Intersection Crash Experience			
Injury + Fatal Crashes	5	0	-100%
Property Damage-Only Crashes	9	1	-89%
Non-Reportable Crashes	3	1	-67%
<i>Total Number of Intersection Crashes</i>	<i>17</i>	<i>2</i>	<i>-88%</i>
Total Intersection Benefit			
Crash Rate	1.69	0.2	-88%
EPDO Rate	5.53	0.11	-98%
EPDO Number*	55.54	1.09	-54.45

Cost of Property Damage Crash: \$ 6,500
 Total Benefit (12 months): \$ 353,925
 Equivalent Uniform Annual Benefit (EUAB): \$ 431,530

Total Cost of Improvements:

Equivalent Uniform Annual Cost (EUAC): \$ 8,990
 Initial Cost: \$ 87,330

Benefit-Cost Ratio: $\frac{\$ 431,530}{\$ 8,990} = 48.0$

Net Benefit (Present Worth): \$ 431,530 - \$8,990 = \$422,540

**Change Statistically Significant at 95% Confidence Interval*

This page intentionally left blank.